# MCNER Webinar Series for Health Professionals Psychological Considerations in the Dietary Management of DGBI (Disorders of Gut Brain Interaction) December 13, 2023 Moderator: Lisa Diewald, MS, RDN, LDN Associate Director MacDonald Center for Nutrition Education and Research Villanova University M. Louise Fitzpatrick College of Nursing

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### Psychological Considerations in the Dietary Management of Patients With DGBI

Laurie Keefer, PhD, AGAF Professor of Medicine and Psychiatry Division of Gastroenterology

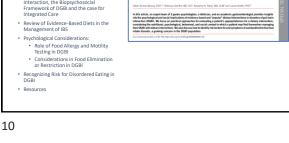
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### Disclosures

- Consultant/scientific advisor to Ardelyx, Takeda, Pfizer, AbbVie, Coprata Health
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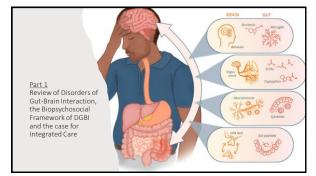
### Key Topics I will address today

Review of Disorders of Gut-Brain Interaction, the Biopsychosocial Framework of DGBI and the case for Integrated Care



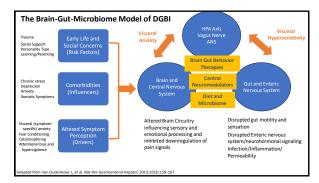
of Patients With DGBI

Psychological Considerations in the Dietary Management



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### Rome IV: Disorders of Gut-Brain Interaction Esophageal Disorders Functional Chest pain Functional heartburn Reflux hypersensitivity Globus Functional Dysphagia Gastroduodenal Disorders • Functional dyspepsia (PDS/EPS) Belching disorders • Nausea & vomiting disorders • Chronic nausea/vomiting disorders • Cyclic vomiting syndrome • Cannabinoid hyperemesis syndrome • Rumination syndrome Gallbladder and SO Disorders **Bowel Disorders** Biliary pain Functional Gallbladder disorder Bowel Disorders - Irritable Bowel Syndrome - Functional constipation - Functional diarrhea - Functional abdominal bloating/distension - Unspecified functional bowel - Opioid-induced constipation Functional Biliary SO disorder Functional Pancreatic SO Disorder Anorectal Disorders • Fecal incontinence • Functional anorectal pain • Levator Ani Syndrome Centrally Mediated Abdominal Pain Centrally Mediated Abdominal Pain Syndrome Narcotic bowel syndrome



### Integrated Care for IBS is now Standard Care

"There is now sufficient evidence to suggest that integrated models of care improve clinical outcomes, satisfaction, and quality of life of patients with IBS. The modern gastroenterology practice model for patients with IBS and other functional GI disorders should, at a minimum, include access to expert nursing support as well as nutrition and behavioral counseling"



Chey, WD, Keefer L., Whelan K, Gibson PR, Gastro, 2021, 160: 47-62

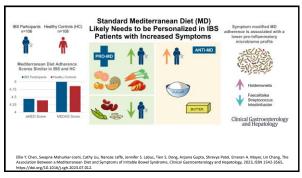
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### Low FODMAP Diet

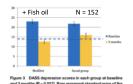
van Lanen AS, de Bree A, Greyling A. Efficacy of a low-FODMAP diet in adult irritable bowel syndrome: a systematic review and meta-analysis. Eur J Nutr. 2021 Sep;60(6):3505-3522.

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### 3 Months of Mediterranean diet improved mental health in an RCT



- Increased omega-3, decreased omega-6 associated with better mental health
- · Gains sustained at 6 months
- Improved Quality of life
- Increased diet diversity and quality

Parietta, N., et al., A Mediterroneon-style dietory intervention supplemented all improves diet quality and mental health in people with depression: A rand controlled trial (HELFIMED). Nutr Neurosci, 2019. 22(7): p. 474-487.

NICE Dietary Guidelines

Scheduled Meals

8+ cups fluid

Limit coffee, ETOH & carbonation

≤ 3 fruits

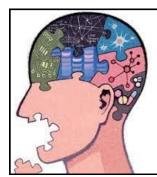
Limit resistant starch

Limit fiber & bran

Avoid sugar alcohols

https://www.nire.org.uk/guirlance/cg61/chanter/1-Recommendationsticlietan-and-lifestyle-adv

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Part 3 Common Challenges in the Dietary Management of DGBI

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Dietary Interventions only work for patients when they are considered in context



Figure 1. Shared decision-making around diet requires an understanding of the patient in the biopsychronocul context. The materioral reactive salere will be produced to the patient of the patient being brighted from the patient patien

Burton-Murray, Doerfler, Harer, Keefer, Psychological Considerations in the Dietary Management of Patients with DGBI, AJG, 2022; 117: 985-95

### Scientific Premise for a Diet Change: Role of Food Allergy Testing

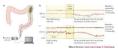
- Oral food challenge, skin prick testing, and serum Immunoglobulin E (IgE) testing are the gold standard methods of food allergy testing when food allergy symptoms are present
- Serum Immunoglobulin G (IgG) testing and commercially available food sensitivity panels are increasing in popularity but should be approached with extreme caution because of the lack of clinical relevance and the negative impact a positive result may have on dietary restriction and quality of life
- Serum IgG testing and antigenleukocyte antibody test are not recommended to diagnose food allergies, hypersensitivities, or intolerances because of low test specificityand poor reproduce bility
- Diagnosis of a food allergy is associated with increased food anxiety, social isolation, and decreased quality of life
- Guided dietary therapy to identify food triggers is currently strongly recommended.

Murray, H. B., B. Doerfler, K. N. Harer, and L. Keefer. 2022. "Psychological Considerations in the Dietary Management of Patients With DGBI", Am J. Gastroenterol, 117: 985-94.

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### Scientific Premise for a Diet Change: Role of Gastrointestinal Motility Testing

- Abnormal testing can result in rash dietary changes (e.g., gastric emptying study resulting in recommendation of implementing a restrictive gastroparesis diet)
- Negative testing can result in disappointment and frustration because of a lack of identified etiology for the patient's suffering and symptoms.
- It is important for providers to set expectations regarding what a positive or negative test result will mean and reassure patients that their symptoms will continue to be treated, regardless of test results.



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Dietary Interventions only work for patients when they are considered in context



Figure 1. Shared decision-making around diet requires an understanding of the palent in the bioporthocoid cordent. The mutritional needs of stated with DGIS, along with the specific symptoms being loggled, must play be considered when recommending of delay intervention for stated with DGIS. However, the psychological and quality C-file risks an scenetible as well as social determinants of health including access to loo and multiflorial support must not be separated from the shared decision.

Burton-Murray, Doerfler, Harer, Keefer, Psychological Considerations in the Dietary Management of Patients with DGBI, AJG, 2022; 117: 985-95

### Scientific premise for food elimination or restriction

- · Must consider nutrients and calories at risk
- Communicate expected Time frame or duration of the dietary intervention
- Gluten-Free can be tried for 4-6 weeks and if not benefiting diet should be liberated
- Low FODMAPS initial restrictive phase is intended for only 4–6 weeks, with a reintroduction period also short, between 3 and 6 month
- Behavioral risk factors, social implications (e.g., access, cost, and cultural practices), and the impact of the diet on quality of life.
  - Balanced diet recommendations (e.g., Mediterranean diet and NICE guidelines) have actually shown similar outcomes to the low FODMAP diet and have higher patient acceptability

Goal is the LEAST RESTRICTIVE DIET TO MANAGE SYMPTOMS

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### Example: Considerations in a Gluten Free Diet

Time Frame

### Nutrients at Risk

### Folic Acid

- B6
- 4-6 week trial; If not benefitting, liberate diet Thiamin
- Riboflavin
- Niacin
- Iron

Behavioral and QOL Impact

· Risk for anxiety/ somatization

Mazzone L, Reale L, Spina M, et al. Compliant gluten-free children with celiac disease An evaluation of psychological distress. BMC Pediatr 2011;11:46

\* Dietary Fiber is often reduced in GF diets and intake should be monitored

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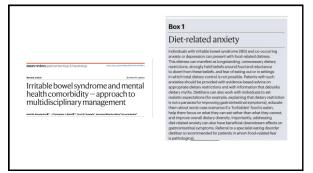
The effect of expectancy versus actual gluten intake on gastrointestinal and extra-intestinal symptoms in noncoeliac gluten sensitivity: a randomised, double-blind, placebo-controlled, international, multicentre study

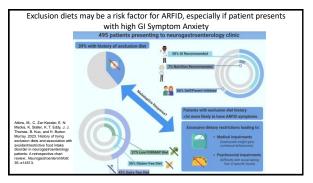
cet.com/gastrohep Published online November 28, 2023 https://doi.org/10.1016/S2468-1253(23)00317-5

The combination of expectancy and actual gluten intake had the largest effect on gastrointestinal symptoms, reflecting a strong nocebo effect

Dietary Interventions only work for patients when they are considered in context

Or opposite the state of th





### Food Related QOL

- Poor food-related quality of life in individuals with IBS has been associated with higher levels of food avoidance (including the use of elimination diets) and diminished nutrient quality.
  Certain diets (e.g. SCD) can impose significant patient emotional and financial burden and call for fanatical adherence, using terms such as Tegal and illegal\* foods despite not outperforming other less restrictive diets.
- The more diets a patient used, the poorer the Food Related Quality of Life score
- Poorer Food related quality of life was associated with not meeting with a dietitian while on a restricted diet (50% of patients).



Guadagnoli, L., E. A. Mutlu, B. Doerfler, A. Ibrahim, D. Brenner, and T. H. Taft. 2019. 'Food-related quality of life in patients with inflammatory bowel disease and irritable bowel syndrome', Qual Life Res, 28: 2195-205.

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### Approach to Identifying Psychological "Red Flags" in Dietary Restriction

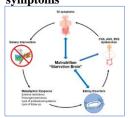
Impact on Quality Do decisions about eating or food Avoiding eating-related situation of Life interfere with your ability to live the life several food types inflexible eat	
of Life interfere with your ability to live the life several food types, inflexible ear you would like to?	
Eating/Food How much time and energy would you Preparation say you spend on food choice, or meal preparation? eating eating eating	
Food Avoidance Can you tell me about the foods you avoid?  Can you tell me about the foods you Only eating a few foods Elimination of entire food group Only eating home cooked food Relying on liquid supplementati Dependent on nutritional supply Social anxiety around meals	ion

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### The vicious cycle of food restriction and GI symptoms



Werlang, M.E., et al., Assessing for Eating Disorders: A Primer for Gastroenterologists. Am J Gastroenterol, 2021. 116(1): p. 68-76.

ARFID prevalence as high as 24% in Adult NeuroGI/Motility Patients

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### DSM-5 Criteria for ARFID

- A. Persistent failure to meet nutritional needs, causing
   Significant weight loss
- Significant nutritional deficiency
- Dependence on enteral/supplemental nutrition
- Psychosocial impairment
- B. Not due to lack of available food
- C. No fear of weight gain or body image disturbance

Not accounted for by other medical or psychiatric condition

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3 Prototypical ARFID Presentations



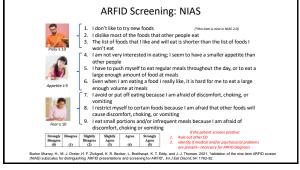






APA, 2013; Thomas et al., 2017 Curr Psychiatry Rep

Quick Assessment Questions	
	Over the last month:
Sensory Sensitivity	have you been put off by food if it doesn't look "right" (e.g., because of the texture)
Lack of interest	have you forgotten to eat or found it difficult to make time to eat?
Fear of aversive consequences	have you been concerned that eating will make you[symptom]?
	have you limited the amount of food you eat or avoided foods to prevent gastrointestinal symptoms?
(1) Medical cons	ve are associated with: equences (e.g., weight loss, supplemental nutrition) impairment (e.g., avoidance of school/work, social difficulties)
Bryant-Waugh, R. 2019.	Avoidant/Restrictive Food Intake Disorder', Child Adolesc Psychiatr Clin N Am, 28: 557-65.



## SCOFF ("Yes" to 2+ indicates likely ED) 1. Do you make yourself Sick because you feel uncomfortably full? 2. Do you worry you have lost Control over how much you eat? 3. Have you recently lost Over 15 pounds in a 3-month period? 4. Do you believe yourself to be Eat when others say you are too thin? 5. Would you say that Food dominates your life? Morgan, J. F. F. Reid, and J. H. Lacey, 2000. The SCOFF questionnaire: a new screening tool for eating disorders, West J Med 172: 164-6.





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### **Diet & DGBI Interest Group**

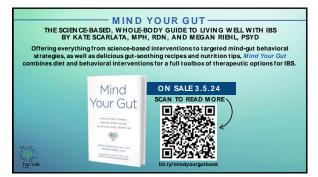
wchey@umich.edu

- The rapid increase in knowledge and widespread acceptance of diet interventions for DGBI has created unmet professional, educational, and research needs for a range of health care providers including physicians, dietitians, and advanced practice providers. We propose the Rome Foundation Diet and Disorders of Gut-Brain Interaction Interest Group to fulfill the following goals:
- Provide a professional home where different types of HCPs with an interest in the role of diet in the pathogenesis and management of DGBI can interact, learn and collaborate with one another.

  Create a tracted source of the latest evidence-based information on this rapidly evolving topic.

  Promote the use of evidence-based diet treatments for DGBI through high quality training workshops and

- Homite title use to evolence-used user treatments of the titledge inight quarry training workings and educational weblants.
   Create and maintain an up-to-date listing of HCPs sortable by specific interest/s (clinical and/or research), ongoing research, interest in collaboration, and geographic location.
   Provide a link to the Rome Foundation Research Institute to promote and conduct cutting edge research in the role of leit in DGBI





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